



FIGURE 15a

TGNTMMKCMACGAKMGWSAKGNCCGAKGGTRGKGVAAVGTGACARAGCTNGMAAAARANGRASTATGACOWTGCGGCCRAGATAGMKAAGCNG 100
 ? ? ? ? R ? ? ? P ? V ? ? ? D ? A ? ? K ? K Y D ? W A ? I ? ? K ?
 ? ? ? H ? ? ? R ? ? ? V T ? L ? K ? ? S M T ? G P R . ? ? S ?
 V ? ? ? T ? ? ? ? G ? ? ? . Q S ? ? K ? E V . P V G ? D ? ? ? A ?
 SAGKTRAMGCCACCATGGCTGNCMCCAAVCGABWGGNAHTBCGCNWDICARNGCTCAAAATKSCAGGAACMACGGAMTGGCTCGCARCCCDIAGG 200
 ? ? ? G R W ? ? Q ? ? G ? ? G ? Q ? P N ? ? ? R N ? R ? G S Q P ? G
 ? ? ? D D G P A ? R ? ? ? ? A ? ? V Q ? ? ? ? G T ? G ? A R ? P .
 ? . R T M ? ? P ? ? ? ? R ? ? ? S K ? ? S Q E P T ? W L A ? ? R
 GATCAGGKACGATGRCCTCSGCCNRACTCSGNKTPGTWAPTCGNNWCGMAGCCGGMGSAATTRWAAGTANTGGTIMGMAKPTGWGVGGAAATGA 300
 I R ? D ? S P ? ? S ? . ? I ? ? R ? A ? E L ? S ? G R ? M ? R ? .
 G S G T M ? ? R ? T ? ? D ? S ? V G R R R N ? K V ? V ? ? ? ? G ? D
 D Q ? R ? L ? ? ? L ? ? I N R ? ? ? G G G I ? K ? W ? ? ? ? ? M
 TTRGTMERACTIVVMGGVAKVIAKGGTACAGGCAAKACARAKGCTGTCTGAGGAADTCAGAGGACAAAMMTGGCGAAGTCMGGACTTAGKATRGA 400
 ? V D ? ? G ? ? ? Y R R ? Q ? ? V . G ? Q ? D ? ? A E V R T . ? ?
 ? ? T ? ? ? ? ? G T G E ? ? ? V S E E ? ? ? R T ? L P K S G L ? ? ? D
 ? ? R L ? R ? ? ? V Q A ? T ? ? C L R ? S ? . G Q ? C R S ? D L ? ? ?
 ACCGAAACKTRGATCTTAMADGGGGNKAACGACTGCSAACGVARATRGGSWGTCTACTTMAACNCCAAGNGGGCACATTACTAGSGAGGAGAGTA 500
 Y E ? ? I L ? G G ? R V ? K R ? ? ? L L ? ? Q ? ? T F T R ? G E .
 T ? ? ? S ? ? G ? S E C ? N ? ? ? V Y ? N ? K ? G H L L ? E E S
 R ? ? D L ? ? G ? A S A . T ? ? G ? S T ? T P ? ? D I Y . ? R R V
 CGGAGATCACUTGAGATGACTAAKGIGGGGTCCCGTGGCGACTATGAGAGACTGGTCCGGAGACATWGTGCTCTTGTGACTCACATATGTT 600
 P D H ? R . S ? V G S R C Q Y M R G L V R Q T ? M L F A D S H I V
 S Q I T . D D L ? W G P V A S I . E D W F G R H ? C S I L T H I L L
 A R S ? E M I . ? G V P L P V Y E R T G S A D I D A L C . L T Y C
 GCGGTGAGATGATGAGATACGCTCTGCTCCCTCATCATGAGATGRCGCGTGTGAGATGAGATGCGCTATGAGACAGAGACTTGGTAC 700
 A ? ? M I R Y D L ? S L I M N ? ? R D A N E I R L . W N K R L ? L .
 P . ? . S D T I ? C P S S . ? ? A V M L M R F A Y D G T R D ? C Y
 C ? E ? D Q I R S ? V P H H E ? ? P . C . . D S P M M E Q E T ? A T
 ACCAGGGCAATGAAAGCTTCTAGCTAGGACTCTAGGAGGAGACAGCTGTGGACCTGGGAGGAGGAGCTCAGGAGGAGCTGGCCACAATGGCT 800
 Q Q A N E G F . S R S L R R R E T V D L E D Q G L Q E E V A T T G L
 S R R M K V S R V G V S G G E K L W T W R T R D S R R K ? P Q L A
 A G E . R F L E . E S Q E E R N C G P G G P G T P G G S ? H N W L
 GCGTTGGCTCCGAGCTGATCGWGGCTGCGCTTGTGAGTATCCCGCTCTTGTGGATGGCTGAGAAATGCCCTGGACCTTTCATCCCCTGG 900
 ? F R L R S . Y ? L V L ? V I P L S C W M A Q K C L D L F I P T G
 ? S F G S D P D T G S S . ? E L S P S L A G W L R N A W T F S S P L D
 ? V S A P I L I ? A R P ? S Y P P L L D G S E M P G P F H P H W
 CAACATGCGCTCTGGGCTTGGCTTGGCTTGGCTTGTGGCTCTGCTGGCTCATCTCCCTCATCTGCTTGTGCTTGTGCTTGTGCTTGTGCT 1000
 Q T R R L A L W P W D C G A V W P H I L H S V Y S H P N L S L ? T
 K L G V W R C G P G I V G L C G L I S S I L S I L T L I C P W ? R
 T N . A S G V V A L G L W G C V A S Y P P F C L F S P . S V P G Y D
 CTCTAGGAGCTGAGATGAGCTGAGATGAGCTGAGATGAGCTGAGATGAGCTGAGATGAGCTGAGATGAGCTGAGATGAGCTGAGATGAGCTGAG 1100
 T Q A ? T D ? V V Q D K E G A Q V G E M E A E M V H C V P T S L . F
 L K P ? L T ? W Y K I R R E P R W V R W K L R W ? T V C ? P H C N
 S S P D . ? C G T R . G G S P G G . D G S . D G ? L C A ? L I V I
 CAACTNCGTGAAGTAAATCCAGATCCYTAGGGATGAGGGAGAGACTGCGAACAGCGGTAGGAGAGCTGAGATGAGCTGAGATGAGCTGAG 1200
 N ? L D . S . N P D P . G . G E E P A K D G S G R Q C . G K A P A
 S T ? L T E V K I Q I ? R D E G K N L P K T G Q E G S A K G R L L Q
 Q L P . L K I K S R S L G M R G R T C Q R R V R K A V L R E G S C

FIGURE 15b

GGCTCTGCAGTTGGACTTCATTCAGTCCCATTGCCAGAAATCTCATAGCTCTTCCYYTATCTCTCTGTCTTGAGTCTAGTTAAGAATTGTTACCGGAG 1300
G L C S W T S F S P I A R I S . L F P L S L C L E S S . E F V T G
A S A V G L H S V P L P E S H S S S ? Y L S V L S L V K N L L P E
R P L Q L D F I Q S H C Q N L I A L P ? I S L S . V . L R I C Y R R
ACAGAAATTCTCTTCTTACGCTCTGGCACATAATTAAAGGAGGGGGTGGGTACTTTTGGTAGGGAACTTAAAGTTATGGATACCAAAAGTCTA 1400
D R I L F L S L L A R Y L K G G G W V T F W . G K L K L W I A K C .
T E F S F L A S W P D I . K E G G G L L F G R G S L S Y G . Q S A
Q N S L S . P P G Q I F K R R G V G Y F I L V G E A . V M D S K V L
ATGTTATCTTTTTCTGAACCTCATGTAGCAATTCTCCCTTCACCCCTCCATACTTCCAGGCTTCATGCCTGGCGGTCTTGGCTCA 1500
L Y S F F L K P H V A F F F P S T L H T F P G F I S C P A S L R S
N C I L F F . N L M . H F S S L P P S I L S Q A S F H A R R L F A H
I V F F F S E T S C S I C P R L H F M P G V S S L
CACCGUTGCAGGGTGTGGCTTCTCCCTGGCTGCCTCACAGACTGCCTCCACACTTCCAGTCTGGTACACGTGATATTAGAGTTCT 1600
H R C R L F E A S P L G L P Q Q T A S T L S S F C V H V D I R V S
T A A G C L R L L P W V C L S R L P P H F P V S A Y T L I L E F P
T P L Q A V . G F S P G S A S A D C L H T F Q F L R T R . Y . S F L
TCCCCACTTGGCTCTTGGCTCTTGTACTACCCAGGCTGATGCCATGCTGGCTCTTGTAAATACTGACATGATGTTATGTAATAACTGGT 1700
F P T W L L D F L . L P R L M P C L A S S C K Y C T M I L C K . L V
S P L G S C S F S D Y P G . C H V W P L P V N T V Q . F Y V N N W
P H L A L A L S L T T Q A D A M S G L F L . I L Y N D S M . I T G
CCTTCCACACAGGAAACCAACGCTCTAGCTAACAAATAAGCTAACAGTGGGGGGTGGCTG 1800
L A H R A S K P S R L T N . R S S L L T D F F I Q F K M A G G G V
S L P T E Q A S L L G . Q I K D Q V C S L T F L F N S R W R G V G W
P C P Q S K Q A F . A N K L K I K F A H . L F Y S I Q D G G G W G
GGGGGGGGATGGCTGTTCACTGTGGTACCTAGCCAGGGCTGAGCTCTGCTTCTGAGTAGCTAACAGTGGGGGGTGGCTG 1900
G G R I A C F H C G T . A G L K L . A P L L . A S E . P T V S V T
G G G L P V F T V V P R Q G . S S E L P C F R L L S S L Q . V L L
G G A D C L F S L W Y L G R A E A L S S P A L G F . V A Y S E C Y C
TGTCCAGCTGGTACATGGTCTCATGGTCTGGTCTGTAAGGCTTGTCTGACTGTGGATGCCCTTCTGGCTAACAT 2000
V S S C S L T S G L S W S G H C K P . L S D C G W L S L A L A R N M
C P A A R . H L V S H G L V I V S L S S L T V D G F P W R . Q L T
V Q L L V D I W S I M V W S L . A L A L . L W M A F L G V S S . H
GGTACAGGTTTCACTGAAATTAAATGTTGGGGAAAGGTGGACACCCATAATGGCTAACATCGTGAACAGCTAACAGTGGCTAACAT 2100
V T G F H J K F K C W G K G A D T P . W S Q F K T I R E T A S S .
W L Q D F T E N L N V G G K V R T H H N G P N S K Q S V K Q P Q V R
G Y R I S L K I . M L G E R C G H T I M V P I Q N N P . N S L K L
GGTGGATGTTCAACCAAACTTATGTTGACACCCACAAACGCAACCTGCTACAGGCTGACTCCCTAAAGCTATTAGACACAAACAT 2200
G . D V F N Q S N Y L D T T K H T C L Q A V T P Q K L L D T Q Q A
G E M F S T K V I I L T P Q S T P V Y R Q . L P K S Y . T H N K H
G V R C F Q P K . L S . H H K A H L S T G S D S P K A I R H T T S M
GACCATAACTCACTGGATGGCAAGGTACACAGTGGACTCCCTCACACAGTAGGAAATGCTGCTGACTGCTGAGCTGTTTTGCA 2300
. P . L S G L A R S H S R T A L H T V G R K M L L S L L S A V I L H
D H N S V D W Q G H T V G L P F T Q . V G K C C C H C C Q L L F C
T I T Q W I G K V T Q . D C P S H S R . E N A A V T A V S C Y F A
TATCCATGTTAAGTTAAAGGCAAAATAATTGCTCTAGCTACTTCTGTTCCAAACTGGAGGAAATTGTAATAATAACCGTGCTRAA 2400
I P C . D . . G K K Y C L . V L L S V P N W R K L L N K . T V H K
I S H V K I N K A K N I V S K S Y F L F Q T G G N Y . I N K P C I K
Y P M L R L I R Q K I L S L S P T F C S K L E E I I E . I N R A .

FIGURE 15c

AGTACCCCTCAGAAAGGGTCAAAATTGTTTCTTGAATATTAGCTGAGGCTCCAGGGGCACACCAAGGTAGCTGGACTAAGGCTGCTCTG 2500
S S L R K G Q N L C F L . I L A E A S R G Q H Q G R E L D . G C S
V A S E R V E I C V F F E Y . L R P P G G S T K V E S W T K A A L
K . P Q K G S K F V F S L N I S . G I Q G A A P R . R A G L R I L C
TGTTCCTGCTCTGGCTCCACAGCTCCCTCCACCAACACTCCATTCTGCTGCACTTATTCTGCTGCACTGGGAGGGGAGCTAGAGGGGA 2600
V F L S W A P H S S L P P P L P F H P T L F L A A S G R G Q D R R E
C S C P G L P T A P P F H H H S H S I Q L Y F . L P V G G G G R I G G
V P V I L G S P Q L P S T T T P I P S N F I F S C Q W E G A G . E G
AACTAACGAAACACCCAGGAAGGGACAGGACAGGAACTCTGAGGCTCTGGACTGGACGGGAAAGGCCCCATGGACTCTCTCCATCCCTCACCTCT 2700
S N E N S Q G E G Q S N S E P L G L D R T S A H G V S I L H P S P A
K V T K T A K E R D R A T Q S L S D W T G Q A P M E S L S I P H L L
K . R K Q P R R G T E Q L R A S R T G P D K R P W S L S P S L T C
CTGCTGGCTGGCTGGCTGAGGAGCTAACCAAACTTGGCTCTGGGAATGGAACTATGTTTATAATGGGACCAATTGGCTAAA 2800
P A P G V A D R . G K Q T W F I L L G M E V M W I V Y N W D H Y G .
L P L A ? L T G E G S K L G F C W E W K L C G L F I I G T I M A K
S C P W R ? . Q V R E A N L V S A G N G S Y V D C L . I G P I W L K
ACTCTGGGGGCTCAGGTGGAGGTTAACCGATCTTATTCCTGCTGCACTCTGCTAACACCCAAATGGCTGAGGCTGGCTAACCTTCCT 2900
N L A G A Q V G G . Y R C Y I S C V H S C S . T P K W Q W P K L P L
I ? R A L R S E V N T D A I F P V C T H V L R H P N G S G Q N F I
S ? G R S G R R L I P M L Y F L C A L M F L D T Q M A V A K T S S
GCTTACCTCATTAATCTAACCTTGTACCTAATTATCTAACCTTGTGCTCTAACCTCCAGGACATGAGGGCACAGAAAAGAGAGCTGCTCTCAT 3000
A C T S L S K P L Y L I I . N L G P K L H R H E G T E K R R V S H
W L V P H Y L N L C T . L S K T L V L N S T D M R A Q K R D V S L I
G L Y L I I . T F V P N Y L K P W S . T P Q T . G H R K E T C L S
CTTCCTGGCTAACCTGATCTACCTTCCCTGCTCTCCCTGCAATTGGCTGCTGGCTGAGGCTAACCTTACTATGTTGCTGAGCT 3100
L P F G Y T D S Y L P C F S L P L V L L G A . G I I A L L C G Q N
F H S V T L I P T F P A S P C H W C S L V P E A . L P Y Y V V R T
S S I R L H . F I P S L L P A I G A P W C L R H N C L T M W S E L
CTGGGCTGGCTAACGGCCAGCTAACCTTCTGGCTCATAGCCCTGCCATTCTGGATTTAAAAAAAGGTCACTATAAAACCTTTCTGA 3200
S G F A . R P S Y S F W S H S P A N F L D . K K K A H I . N T F S E
L G S P N D R A T V S G L I A L P I S W I K K K R L T Y K I P F L
W V R L T T E L O F L V S . P C Q F . P G L K K K G S . H . I . K . S . L F .
AAATGAGCACACTGTGAGTGAATGATTTGGGGATGGAGGTGCTGAGGAAAGACACTAGAGAGAGAAATCTGGGAGGGATAG 3300
N E H S V S . S . I L G D G G I L G C K E Q D S R E E N H G R D K
K M S T V . V E V R F W G M E G . C L D A K S K T V E K R I M G G I R
K . A Q C E L K L D F G G W R V A W M Q R A R Q . R R E S W E G .
AGCTGGAAATTCTGGCTAGTGGCTATAATCTGGCTAAACAGCTCTGTTATGGGAATGGGCTAGGAGAAAGGAATCTGG 3400
R L E F F P A S A L . S L F P K I T A L I L W E L G S G E R N Q .
G W N F S S L L V P Y N L C F L K . Q L . F Y G N W G Q E K G I S R
E A G I F P C . C P I I F V S . N N S S D F M G I G V R R K E S V G
CACAGATGGGACCCCAACCTGGACTAACGTTGAGGAACATGGGAGTGGCAGGGGTGTTGTAAGCTGGCTAGATGAGGAGATTGGGGGG 3500
A Q M G P Q A W T K V . G N Y G S R Q G V F V R W M R . G D C G G G
H R W D P K R G L K F E E T M G V G K G . C L . G G . D E E I V V G
T D G T P S V D . S L R K L W E . A R G V C K V D E M R R L W W G
GGACTCTGGGGGTGATAGGACCTAACAGGGATAGTGGCAACTGTTGTCAGGGCAGGGGGTGGTCCACCCACTTAATTAGCTGGCTGGGG 3600
E S W G . . D P . Q G . M A N C V V W A G R W F H P L N . R . G W Q
G S L G G D R T L N R D R W Q T V C G Q A G G S T H L I S V E V G R
G V L G V I G P L T G I D G K L C V G R P V V P P T . L A L R L A

FIGURE 15d

FIGURE 15e

FIGURE 15f

TCCTGACTACACCCACATCCATGTTTTGTTCCATCACTATGCCCTCTAGGCTGCCCCACATACATGGATGTCGTCAATTGTTGGAT 6100
C . L H P T S F H V F C F P S L C P P S R L S H I H ' G C R H C F G
A D Y T P H P S M F F V S H H Y A P L L G C P T Y M D V V I V L D
L L T T P H I L P C F L F P I T M P P F . A V P H T W M S S L F W M
GGCTCCAAACAGTATCTATCCCTGGTCAGAAGTTCAAGCTTCTGGAGGCTGGTAGGAAGACTGTCAATCGATCCGAGCAGATACTAGGAAAGAAA 6200
W L Q Q Y L S L V R S S D F P S E A G R K T V H R S G A D T G K R K
G S N S I Y P W S E V Q T F L R R L V G R L F I D P E Q I Q V R E
A P T V S I P G Q K F R L S F G G W . E D C S S I R S R Y R . E K
GATATGGGATAGGATTGGAGGAAAGAAGTAAACACTCTGGACCCCTGGATGTAACCACTATGTCACCGCTCTGACACCCCTGGGACATTGTCT 6300
I C G . D W R E R S K H S W T L G C K Q P C P A S . . H P G T L S
R Y V D R I G G K E V N T P G P L D V S S H V Q P L D D T L G H C L
D M W I G L E G K K . T L L D P W M . A A M S S L M T P W D I V
TCTACAGAACTCATGTCAGAACTGTGCAATTACCAAAAGTCACAAAAATTCAATAGTTGAAGTAAAGTTATGTTGIGGGGGGCAAC 6400
S T E L M L K N C A I N L P K S H K N F I M F E V S L . I C G G P
L Q N S C S R T V Q L T Y Q K V T K I S . C L K . V Y D C V G G H
F Y R T H A Q E L C N . L T K K S Q K F H N V . S K F M I V W G A T
ACTCAGAGCTTCCCTTGTCTGCTGGTAGTGGCTGGCAATGCGATGAGCTGCAAGTTAGACACACCTGTCACCTCCCTCATGTCCTGAGG 6500
H S E L P F A A C S C L G N A C H E L Q V R H T C S L P L H R A A G
T Q S F P L L L V V A W A M H A M S C K L D T P V H F P F I V L Q
L R A S L C C L . D L G Q C M P . A A S . T H L F T S P S S C C R
TTGGACACCTGTTAGGGGTCACTTCCCTCATCTTGTCTCCATCTCTACGCTCTCATACATCCATGTCAGGGCATATGGCTTAITGTCT 6600
W T H I L L G V H F F I L C A P S S L R S S Y I P C G H M V Y C S
V G H T C . G F T S P S S F V L H L L Y A L H T S H V G T W S I V L
L D T P V R G S L P L H P L C S I F S T L F I H P M W A H G L L F
CAGCTAGACTGTCACAGTACCGGGAGAACCCCTGTCATGAGCTGGTGGCTGGAGAGCTCCGAACAAAGGAGAGTTGTCAGAGCACAGAACCTAA 6700
Q V G L V Q Y G E N P V H E W S I L G D F R T K E E V V R A A R N L
R . D W Y S T G R T L C M S G Q P W E T S E Q R K K L . E Q Q G T .
S G R T G T V R G E P C A . V V P G R L P N K G R S C E S S K E P K
GTCGGAGGGAGGGCCAGAACAGAACCCCTGTCATGAGCTGGTGGCTGGAGAGCTCCGAACAAAGGAGAGTTGTCAGAGCACAGAACCTAA 6800
S R R E G R E T R T A Q A I M V A W . D I V K G S C E G G G R I S R
V G G K G E K R E P P K R S W W H G E T L . R G R V R E E E G S A
S E G R A R N E N R P S D H G G M V R H C K G V V . G R R K D Q Q
GGAGAGGGAGGGCTGGAGAGCTGTCATGAGCTGGTGGCTGGAGAGCTCCGAACAGGAGAGCTGGAGGGAGGGAGGTCAGGAG 6900
E R E R V W S V V Y T S Q D A L G A Y L Y L H A R S S W R K A R L
G R G R G S G V . C I H H K M L W A L I F I C M P E V R G G R L G C
G E G E G L E C S V Y I T R C S G R L S L S A C Q K F V E E G . V
CTCTCACATACTCTCTACTGATTTGATTTATGGTCTCTGTTGGCTCTCTCTGTCATGTCACACAGAACTCCATCTTCC 7000
L S P Y S L L L Y L H F M V S V G V S L L V C S V S A H R T P S F
C H A T L S Y C I C I L W C L W V Y L S L S V L F L H T E L H L S
A V T I L S L T V F A F Y G V C G C I S P C L F C F C T Q N S I F P
TCTTCTACTCTGCTGTCATGTCACCTGTCACACTCACACCCCTAGTATCTTCAACATGACTCTAACCTCTGGGGAGGGCTACATGA 7100
L F Y S C V N S D T . L L N H S R P S I L F K H D S K P L G R L H D
S S T P A S I L I P S F S T T H A L V F F S N M T L N L W G G Y M
L L D L R Q F . Y L A S Q P L T P . Y S F Q T . L . T S G E A T .
CCTGACTGTCCTTATTCTCCAGTCTGTCACCCAGTGTTCATGTCACAGAACCTGTCATGTCACACAGAACTCCATCTTCC 7200
L T V F I L Q F L D L V N P S V C . M N L . I N N A C T Y L H .
T . L S L F S S S L I L S T Q V F A E . I Y K . I M L V H I Y T D D
P D C L Y S P V P . S C Q P K C L L N E S I N K . C L Y I F T L M

FIGURE 15g

CAGATTTATATATCTCCGTGCCATCTAACAGTCAGTTGTACTCTGTGCCAGTTGCATGCTACTGTTGGGAAATGGTGTAGAAGACATCT 7300

Q I I L Y V P C H L N S Q V V T L C Q F A C . I L L G N G V E D I
R L F Y M F R A I . T V K L . L C A S L H R Y C W G M V . K T S
T D Y F I C S V P S K Q S S C D S V P V C M L D T V G E W C R R H L
GACCTCACTGAACTGCTGCACTGTTAATACACTATAACGGGCACTGCTGCAAGCCCTGTGTGTATGCTATGCTACACACATACATATGACC 7400

. P Q . T A D S V N T L Y G H A C M Q A C V Y V H A Y A H T Y I . P
D L S E L L T V L I H Y T G M P A C K P V C M C M H M H T H T Y D
T S V N C . Q C . Y T I R A C L H A S L C V C A C I C T H I H M T
ATTAAGATTCCTTATCTCTCTCTCTAGCACAGAAGGGCTCAGTCAGTCCCGGGGGGGACGACAGAGGCGCTAGGCTGTGGTAGTTGTCAGTGATG 7500

Y S I L L S L F L A Q K G S V S P G G D D Q R P L G C W . L S L M
H I A F F Y L S S . H R R V Q S V P G G T T R G R . A A G S C H . W
I . H S F I S L L S T E G F S Q S R G G R P E A A R I L L V V V T D
GAGACTCCATGATGGAAAGGAACTCCAGCACGGCTTAAGGCTGTGAGCTGCAAGACTTATGGGATGGGGTAGACTGTGATCAAGTC 7600

E S P M M E R N F Q Q R . R P V U R L A E . H V M G L R . D L I K S
R V P . W R G T S S S A K G L . G W Q S D T L W D C G E T . S S P
G E S H D G E E L P A A L K A C E A R V T R Y G I A V R L D Q V Q
GTGTTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTGTTGTG 7700

S C F V L C C I V C V C V C V C V C V C V C V C V Y V . Y V C M H Q C T
V V L F C V V S C V C V C V C V C V C V C V C M C D M C A C I S A
L F C P V I Y R V C V C V C V C V C V C V C V C V I C V H A S V H
ATACCACTAGTGTATATCGGGTCAAGAGAACACCTCAGATGTTGGTCTCACCTTCCATCTTGTCCAATCTGTTCACTTGGCATAC 7800

Y H S V Y M R V R E O P Q M L V L T F H L V P N W I S C S L R H T
B T I V C I C G S E N N L R C W S S P S I L F Q T G Y L V H F G I Q
I P . C V Y A G Q R T T S D V G P H L P S C S K L D I L F T S A Y
ATAGCCAGTACCTGACCCAAAGTCCTGGGAGGTCTCTGTCAGCTCCCTGCTCTGGTTGAGGCTTGTGAAATTACAGATAACCTTGAT 7900

I S Q I S . P T S L G Q V F C L S L L S L G L R H S G I Y R . A .
A R L A D P Q V L G R S S V S A S C L L V . G I L E F T D K L D
N K P D . L T H K S W A G L I L S Q P P V S W F E A F W N L Q I S L I
ATCGAACTCTGCAACCCCCGGGCACTACTGTTCTAGAGGGGGGGCAACCAAGGGAG 7958

Y R I P A A R G I H . F . S G R H Q G S
I E F L Q P G G S T S S R A A A T K G
S N S C S P G D P L V L E R P P P R E